

Special Issue

Semiconductor Lasers: Science and Applications

Message from the Guest Editors

This Special Issue aims to collect both theoretical and experimental research publications, which will cover the current status, prospects, and challenges of the field in the designing and manufacturing of semiconductor lasers, as well as using semiconductor lasers for cutting-edge technologies. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Lasers based on novel semiconductor materials.
- Laser modeling and experimental characterization of dynamics.
- Laser networks and their synchronization properties.
- Quantum cascade lasers, vertical-cavity surface-emitting lasers, nanolasers, etc.
- Optical communications and information encryption.
- Lidar/radar/sensor, including imaging and ranging.
- Microwave photonics.
- Neuromorphic computing.
- Random number generation and secure key distribution.
- Spiking dynamics and its applications.
- Other related applications of semiconductor lasers.

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Deadline for manuscript submissions

closed (15 December 2022)



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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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the second half of 2024).